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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/447,024	11/22/1999	LUBOMIR D. BOURDEV	07844/3420001	3275		
21876 7	7590 06/10/2004	EXAM	EXAMINER			
FISH & RICHARDSON P.C. 3300 DAIN RAUSCHER PLAZA			WALLACE,	WALLACE, SCOTT A		
••••	IS, MN 55402		ART UNIT	PAPER NUMBER		
	,		2671	2/		
			DATE MAILED: 06/10/2004	DATE MAILED: 06/10/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)			
Office Action Summary		09/447,02	24	BOURDEV ET AL.			
		Examiner	•	Art Unit			
		Scott Wa		2671			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 ( SIX (6) MONTHS from the mailing date of this communicat period for reply specified above is less than thirty (30) days period for reply is specified above, the maximum statutory tre to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ION.  CFR 1.136(a). In no evention.  s, a reply within the state period will apply and were statute, cause the app	ent, however, may a reply be tim utory minimum of thirty (30) days ill expire SIX (6) MONTHS from lication to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communica O (35 U.S.C. § 133).	ition.		
Status							
1)⊠	Responsive to communication(s) filed on	08 March 2004.					
·		This action is n	on-final.				
3)[	<del>_</del>						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)⊠	4)  Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) 1,5-11,15,19-24 and 28 is/are rejected.  7)  Claim(s) 2-4,12-14,16-18 and 25-27 is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.						
Applicati	ion Papers						
9)	The specification is objected to by the Ex	aminer.					
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
44)[**]	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119						
a)l	Acknowledgment is made of a claim for for All b) Some * c) None of:  1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Election for See the attached detailed Office action for	uments have bee uments have bee e priority docume Bureau (PCT Rul	n received. n received in Application ents have been receive e 17.2(a)).	on No ed in this National Stage			
Attachmen	t(s)						
1) Notic	e of References Cited (PTO-892)		4) Interview Summary				
	e of Draftsperson's Patent Drawing Review (PTO-9- mation Disclosure Statement(s) (PTO-1449 or PTO/		Paper No(s)/Mail Da	ate atent Application (PTO-152)			
Pape	r No(s)/Mail Date <u>18 12/22/03</u> .	35/06)	6) Other:	(Ppinodio) (1 10-132)			

·Q.

#### Response to Arguments

1. Applicant's arguments filed 03/08/04 have been fully considered but they are not persuasive. The applicant argues "lines 29-40 of column 6 and fig. 5B do not disclose "determining the number of primitives that map to a cell and identifying the region as complex by the number of primitives in the region" and that Greene at best identifies the cell as complex based on visible outlines because the hidden outlines are culled. However, the claim states mapping outlines of at least one of the pieces of artwork onto a grid of cells. Even if Greene only maps the visible outlines this is still at least one of the pieces of artwork, therefore this still reads on the claim language.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 5-11, 15, 19-24, 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Greene et al., U.S. Patent No. 5,600,763.
- 4. As per claims 1 and 15, Greene et al discloses a computer-based method of processing a computer graphics illustration that includes one or more pieces of artwork (fig 5B, column 6 lines 29-40), the method comprising: mapping outlines of at least one of the pieces of artwork onto a grid of cells (fig 5B). However, Greene et al does not specifically disclose determining the total number of outlines of pieces of artwork that map to a cell of the grid; and identifying the cell as a complex region based on the total number of outlines that map to the cell. Greene et al does disclose determining the number of primitives that map to a cell and identifying the region as complex by the number of primitives in the region in column 6 lines 29-40 and fig. 5B. It would have been obvious to one of ordinary skill in the art at

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the time the invention was made to use the outlines of the primitives because when determining the number of pieces of artwork it is easier to separate the different pieces by the outline of the pieces as seen in fig. 5B. That way you can determine the total number of primitives and therefore the complexity of the region.

- 5. As per claims 5 and 22, Greene et al discloses wherein mapping comprises drawing the outlines using a rasterization engine function (column 1 lines 33-40).
- 6. As per claims 6 and 19, Greene et al discloses wherein identifying comprises comparing the total number of outlines of pieces of artwork that map to the cell with a threshold (column 6 lines 29-40).
- 7. As per claims 7 and 21, Greene et al discloses wherein the threshold is based on user input (abstract).
- 8. As per claims 8 and 20, Greene et al discloses a dynamically determined threshold (abstract).
- 9. As per claims 9 and 28, Greene et al does not specifically disclose wherein the illustration has a first associated resolution and the grid has a second resolution, the second resolution being less than the first resolution. It would have been obvious to one of ordinary skill in the art at the time of applicants invention that the illustration will have an associated resolution. When the illustration is mapped to a planar grid of cells, this grid of cells will also have an associated resolution. The invention states a process for looking at the grid and picking out cells with a determined number of lines from the artwork going thru it. If the resolution of the grid is greater than the illustration resolution then it would be difficult to pick out a cell with more than one artwork line going thru it. But if the resolution of the grid is less than the illustration resolution than it would be easier to find a cell with more than one artwork line going thru it. Being able to determine if more than one line goes thru a cell helps in determining if the cell is complex or not. Therefore it would be advantageous if the resolution of the grid is less than the illustration resolution. This would be obvious to one skilled in the art since the object of the invention is to be able to tell if the cell is complex or not.
- 10. As per claims 10 and 23, Greene et al discloses wherein the determining comprises determining using a rasterization engine function (column 1 lines 33-40).

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11. As per claims 11 and 24, Greene et al discloses further classifying at least one of the pieces of artwork based on the intersection of the piece of artwork with the complex region (fig 5B and column 6 lines 29-40).

## Allowable Subject Matter

12. Claims 2-4, 12-14, 16-18, 25-27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

13. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

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or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA,

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Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be

directed to the Technology Center 2600 Customer Service Office whose telephone number is

(703) 306-0377.

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Scott Wallace whose telephone number is 703-605-5163. The examiner can normally be

reached on Monday thru Friday from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark

Zimmerman, can be reached on 703-305-9798. The fax phone number for the organization where this

application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

MARK ZIMMERMAN

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600